

Title (en)
SEALS FORMED FROM POLYMER LAMINATED METALLIC CONSTRUCTIONS

Title (de)
ABDICHTUNG AUS POLYMERWERBUND AUF METALLSTRUKTUR

Title (fr)
DISPOSITIFS D'ETANCHEITE FORMES DE STRUCTURES METALLIQUES A REVETEMENT POLYMERE

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Abstract (en)
[origin: US2003031828A1] Seal devices of this invention are prepared by the process of depositing a polymer material onto a metallic substrate to form a composite construction, and shape forming the composite construction into the shape of a seal device. The so-formed seal device comprises a casing member that is formed from the metallic substrate, and a sealing element disposed along a 1C surface of the casing member that is formed from the polymer material for placement against a sealing surface. Seal devices of this invention can be shaped formed into a variety of different types of seals, e.g., lips seals, L-shaped seals, and U-cup seals, which may or may not be energized. Seal devices prepared according to this invention using such preformed composite construction enable seal formation by a single step of shape forming, without having to both make and form individual seal members, and subsequently combine or join the separately formed seal members together.

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